

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:
C12N 15/11

A2

(11) International Publication Number: WO 99/10487

(43) International Publication Date: 4 March 1999 (04.03.99)

(21) International Application Number:

PCT/US98/17691

(22) International Filing Date:

26 August 1998 (26.08.98)

(30) Priority Data:

60/056,857

27 August 1997 (27.08.97) US

(71) Applicants (for all designated States except US): PRESIDENT AND FELLOWS OF HARVARD COLLEGE [US/US]; 4th floor, 124 Mount Auburn Street, Cambridge, MA 02138 (US). TRUSTEBS OF BOSTON UNIVERSITY [US/US]; 108 Bay State Road, Boston, MA 02215 (US).

(72) Inventors; and

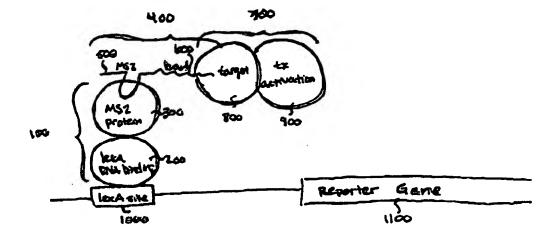
- (75) Inventors/Applicants (for US only): JARRELL, Kevin, A. [US/US]; 3 Acorn Lane, Lincoln, MA 01773 (US). SAHA, Shamol [SE/US]; 24 Sunset Road, Arlington, MA 02474 (US). PTASHNE, Mark [US/US]; 1075 Park Avenue, New York, NY 10120 (US).
- (74) Agent: JARRELL, Brenda, H.; Choate, Hall & Stewart, Exchange Place, 53 State Street, Boston, MA 02109 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

Without international search report and to be republished upon receipt of that report.

(54) Title: NOVEL TRANSCRIPTIONAL REGULATORS AND USES THEREFOR



(57) Abstract

The present invention provides RNA molecules that regulate transcription. Specifically, the invention provides RNAs that, when recruited to a site operatively linked to a promoter, increase or decrease the rate or extent of transcription from that promoter. Methods of isolating such RNAs, termed "riboregulators", and methods of using them, are also provided.